Title: NOVEL SEVEN-TRANSMEMBRANE PROTEIN/G-PROTEIN COUPLED RECEPTORS

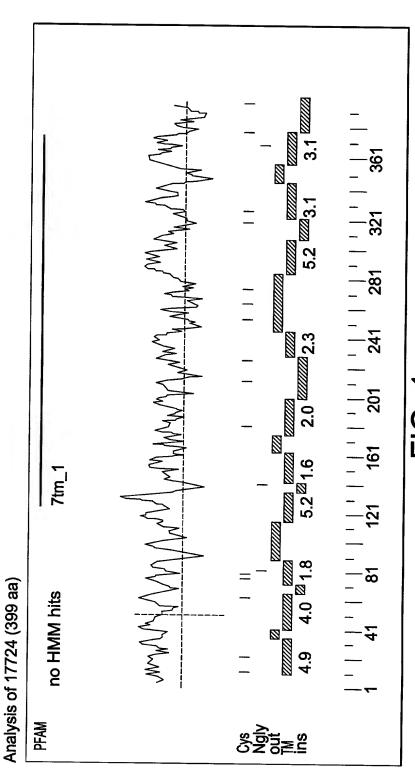
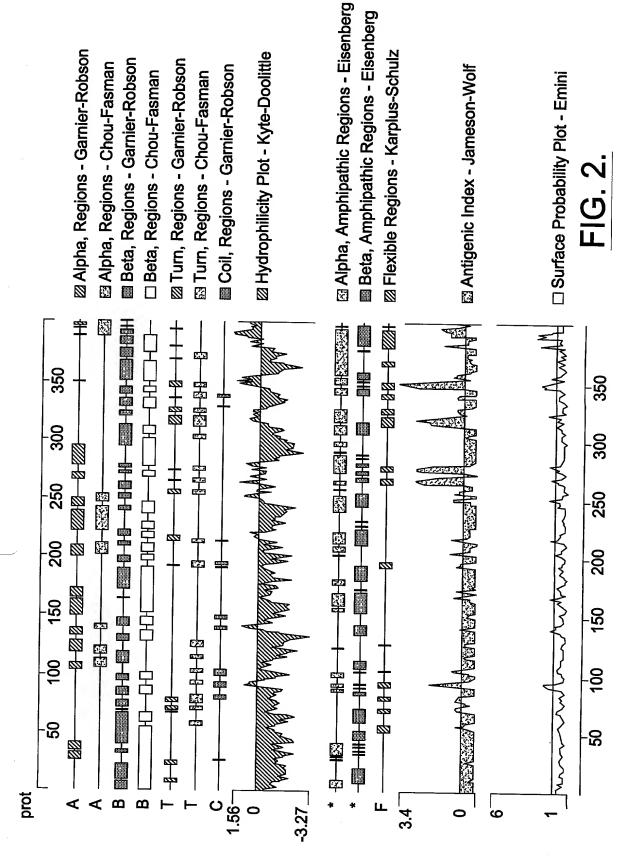


FIG. 1.

Title: NOVEL SEVEN-TRANSMEMBRANE PROTEIN/G-PROTEIN

COUPLED RECEPTORS



Title: NOVEL SEVEN-TRANSMEMBRANE PROTEIN/G-PROTEIN

COUPLED RECEPTORS Inventor(s): Glucksmann et al. Application No: 09/781,880

Atty Dkt No: 35800/208932 (5800-206)

3/22

Query: 17724 Scores for sequence family classification (score includes all domains): Model Description Score E-value N 7tm 1 94. 1 6. 1e-29 7 transmembrane receptor (rhodopsin family) 1 Parsed for domains: Mode l hmm-f hmm-t score E-value Domain seq-f seq-t 374 ... 259 () 94, 1 6, 1e-29 125 1 7tm 1 Alignments of top-scoring domains: 7tm_1 : domain 1 of 1, from 125 to 374: score 94.1, E = 6.1e-29 *->GNILV: lv: lrtkklrtptn: filNLAvADLLflltlppwalyylvg
GN ++:+ ++ +l+tp+++f++N ++ +L++ t +p +l+ l+ 17724 GNTIIIVMVIADTHLHTPMYFFLGNFSLLEILVTMTAVPRMLSDLLV 171 125 gsedWpfGsalCklvtaldvvnmyaSillLtaISiDRYlAIvhPlryrrr ++++ +C ++ ++ ++ ++ ++ Lt +++DR++AI+hPlry ++ 172 --PHKVITFTGCMVQFYFHFSLGSTSFLILTDMALDRFVAICHPLRYGTL 219 17724 rtsprrAkvvillvWvlalllslPpllfswvktveegngtlnvnvtvCli 17724 266 EPLLQLSCSDTRLLEFWDFLMALTFVLSSFLVTLISYGYIVTTVLripsa 315 17724 ...kaaktllvvvvvFvlCWlPyfivllldtlc.lsiimsstCelervlp ++ + a+ ++ +++ v+ + |+|++++ + s ++ 316 sscQKAFSTCGSHLTLVFIGYSSTIFLYVRPGKaHS------VQ 17724 tallvtlwLayvNsclNP;IY<-* FIG. 3. 17724 354 VRKVVALVTSVLTPFLNPFIL 374

MDA 253 Lung T 20.25 19.75 40 **CHT 832** Lung 40 19 7 CHT 845 Lung T 19.54 20.47 8 0 MDA 259 Lung T 21.29 18.71 우 17724 Expression in Clinical Lung Samples CHT 726 Lung T 29.63 20.29 9.34 1.54 40 22.22 MDA262 Lung T 37.95 19.36 18.59 SCC. CHT 814 Lung T 34.88 23.9 10.98 0.49 CHT 816 Lung N 17.17 22.83 \$ MDA185 Lung N 39.89 17.89 22 CLN 930 Lung N 19.75 20.25 **\$** MDA183 Lung N 21.45 18.56 0 8 <u>%</u>. 1.6 1.4 0.2-•• Ct Expression 1.2 0.8 0.6 0.4-9 'n Mean 17724 82 Mean

FIG. 4.

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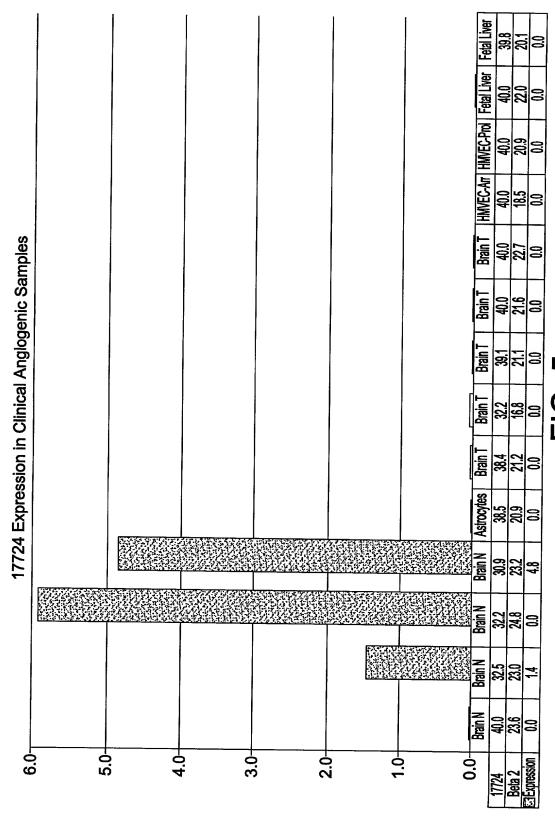
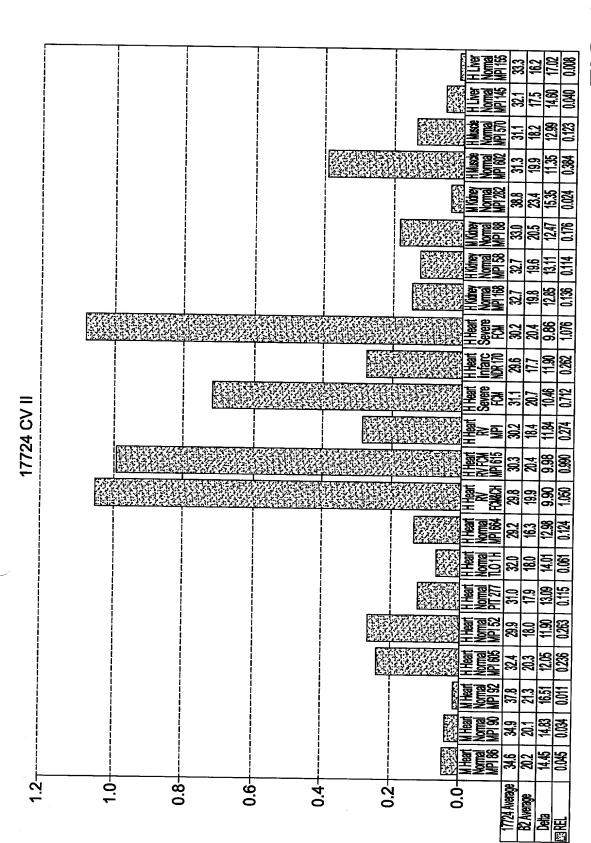


FIG. 5

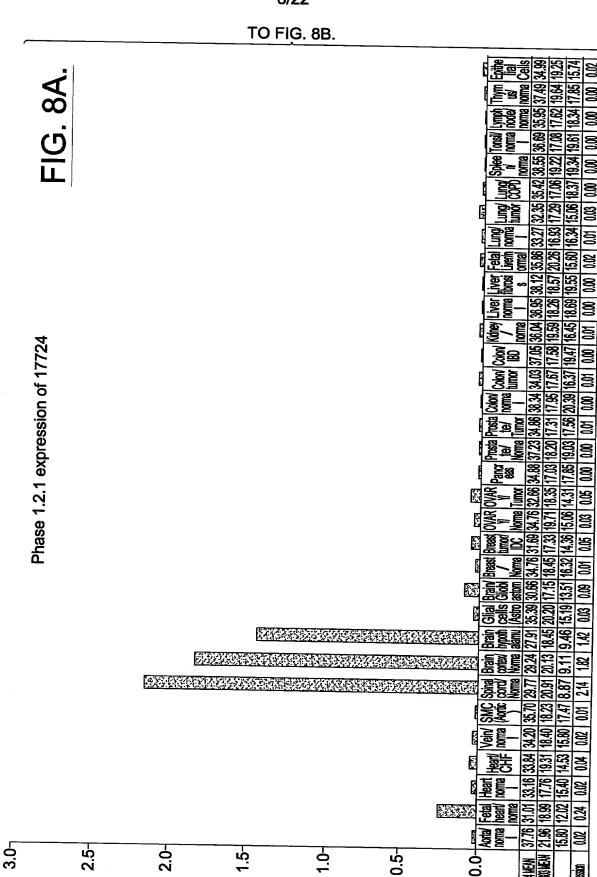
FIG. 6.



7.95 H Saph | Vein Normal M Renal Artery 9.54 1.343 Mamm Corona Corona Corona Corona Renal 4.98 23.8 28.7 33.2 12.45 27.6 40.0 8.13 3.570 34.2 26.1 20.8 12.70 33.5 0.150 17724 CV III 6.324 25.8 0.667 33.1 1.614 34.3 25.0 Aorta Normal 12.09 19.2 0.230 0.046 20.0 14.41 35.6 12.42 0.183 23.2 35.0 23.3 0.300 6.0 5.0 <u>P</u>. 0.0 7.0 3.0 2.07 <u>1</u>.0 17724 Average B2 Average Delta ERE

TIUE. NOVEL SEVEN-IKANSMEMBKANE PROTEIN/G-PROTEIN COUPLED RECEPTORS

FIG. 7



Inventor(s): Glucksmann et al.
Application No: 09/741.880 Atty Dkt No: 35800/208932 (5800-206)

IIII. INOVEL SEVEN-IRANSMEMBRANE PROTEIN/G-PROTEIN

COUPLED RECEPTORS

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FROM FIG. 8A.

COUPLED RECEPTORS
Inventor(s): Glucksmann et al.
Application No: 09/761,8801. [C] [C] [C] [C] [C] [C] [C]
Atty Dkt No: 35800/208932 (5800-206)

IIIIE. NOVEL SEVEN-IKANSMEMBRANE PROJEIN/G-PROJEIN

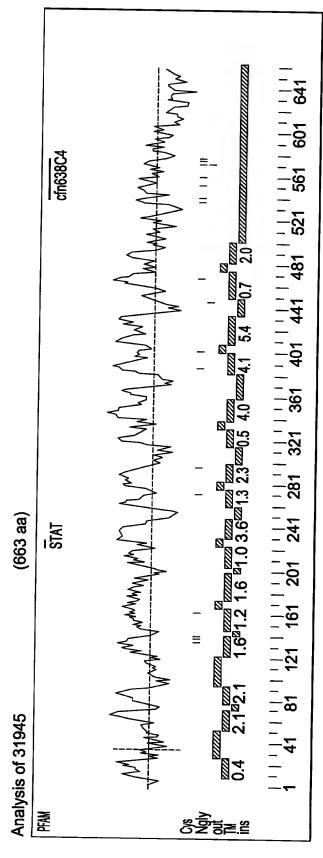


FIG. 9

Alpha, Amphipathic Regions - Eisenberg 🖾 Beta, Amphipathic Regions - Eisenberg ZAlpha, Regions - Garnier-Robson Hydrophilicity Plot - Kyte-Doolittle Flexible Regions - Karplus-Schulz 🔤 Beta, Regions - Garnier-Robson ☑ Turn, Regions - Garnier-Robson 🖾 Alpha, Regions - Chou-Fasman □ Coil, Regions - Garnier-Robson Antigenic Index - Jameson-Wolf ☐ Beta, Regions - Chou-Fasman 🖾 Turn, Regions - Chou-Fasman ☐ Surface Probability Plot - Emini TITIE: NOVEL SEVEN-TRANSMEMBRANE PROTEIN/G-PROTEIN Inventor(s): Glucksmann et al.

Application Ng: (93/781, \$86_1| "L" (_1) (_2) (_2) (_1)

Atty Dkt No: 35800/208932 (5800-206) 100 150 200 250 300 350 400 450 500 550 600 650 100 150 200 250 300 350 400 450 500 550 600 COUPLED RECEPTORS 中国 對 ⋖ Ц Ω Ω .prot <u>က်</u> 2.97 ်ထ

Taqman Chart+Table GPCR 31945 Expression

1500.0-

1400.0-

1300.0-

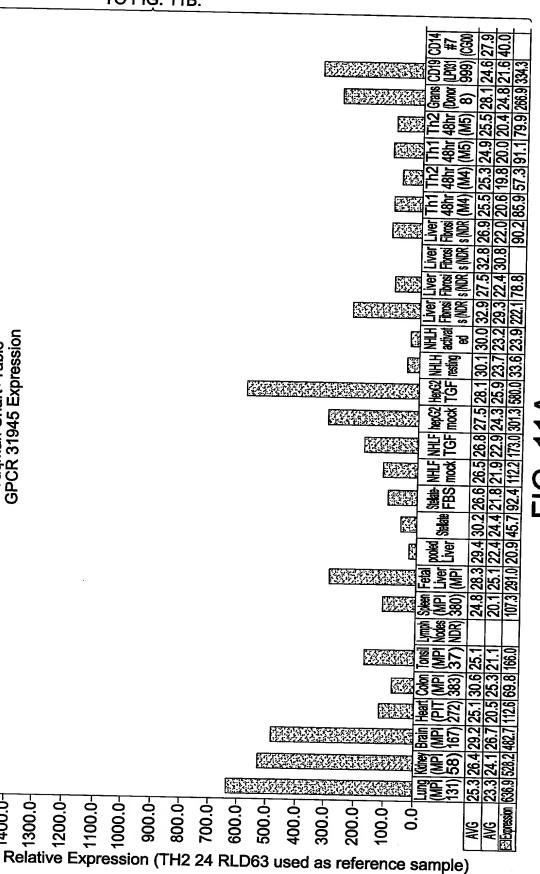
1200.0-

1000.0-

1100.0-

-0.006

800.0-



Inventor(s), Glucksmann et al. [3] [3] Application No. 957781/880 Atty Dkt No. 35800/208932 (5800-206)

₩ 2 2 3 න 24 CD116 CD15+ CD116 29.7 29.9 26.0 23.8 21.7 21.1 92.1 25.4 26.2 25.3 24.7 24.8 25.5 24.6 24.9 31.0 29.3 26.9 29.6 25.8 26.9 25.4 26.9 31.0 29.3 26.9 20.4 18.9 18.9 18.9 18.9 24.6 23.8 13.0 19.6 25.4 25.4 23.6 23.9 22.5 48.7 23.2 48.8 43.4 43.3 133.2 891.4 10 176.1 955.4 44.6 170.7 477.7 327.4 336.6 语 MPB ABM mBM CD34+ CD34+ 441 (L67) 3) MNC-(407) 3) MNC-(407) 3) | PBMC | PBMC | NHBE | NHBE | 7 | 11.10 | IFN g | mock | 11.13-1 | 11.

FROM FIG. 11A.

19761880 ... D1151

LILE. NOVEL SEVEN-TRANSMEMBRANE PROTEIN/G-PROTEIN COUPLED RECEPTORS Inventor(s): Glucksmann et al. Application No: 09/781,880 Atty Dkt No: 35800/208932 (5800-206)

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Analysis of 50288 (372 aa)

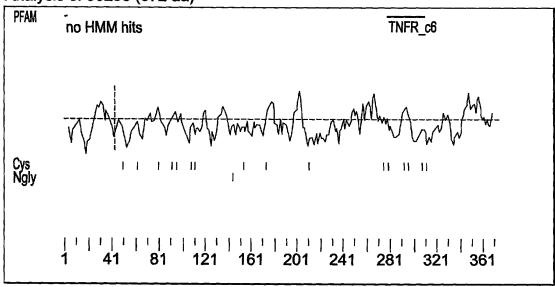


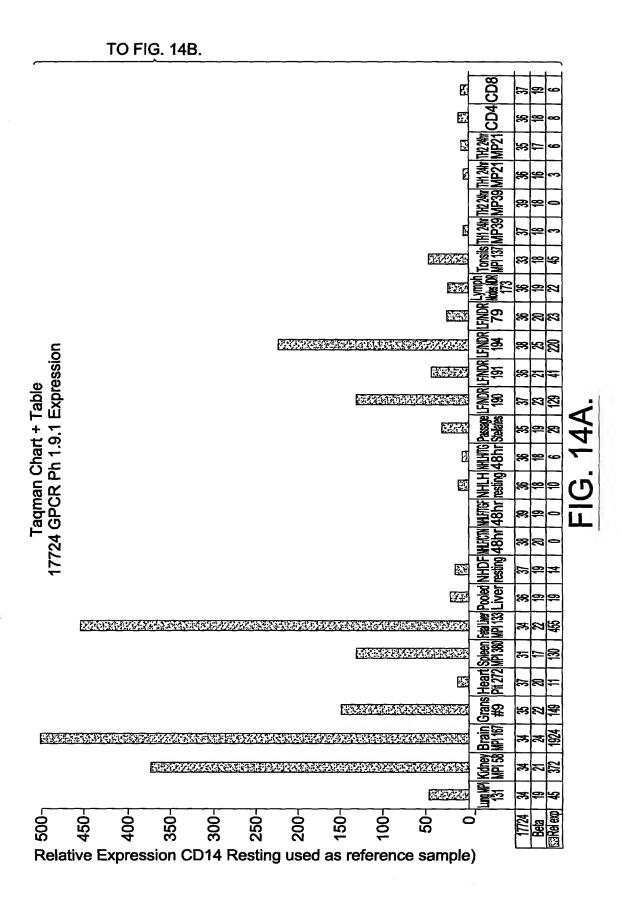
FIG. 12.

⊠Alpha, Amphipathic Regions - Eisenberg 🖾 Beta, Amphipathic Regions - Eisenberg □Alpha, Regions - Garnier-Robson ☑ Hydrophilicity Plot - Kyte-Doolittle ■ Flexible Regions - Karplus-Schulz ⊞Beta, Regions - Garnier-Robson ⊠Turn, Regions - Garnier-Robson 🖾 Alpha, Regions - Chou-Fasman ■Coil, Regions - Garnier-Robson ZAntigenic Index - Jameson-Wolf □Beta, Regions - Chou-Fasman ☑Turn, Regions - Chou-Fasman Surface Probability Plot - Emini FIG. 13 100 125 150 175 200 225 250 275 300 325 350 75 100 125 150 175 200 225 250 275 300 325 350 Atty Dkt No: 35800/208932 (5800-206) 图图图 图图 75 20 prot $\mathbf{\omega}$ -1.83 2.54 0 ထ

OF VEN INGINEMBRANE PROTEIN/G-PROTEIN

Inventor(s): Glucksmann et al. Application No: 09/7/81 (880)

COUPLED RECEPTORS



Inventor(s): Glucksmann et al.

Application NG: 09/761, 386,7 T. " [] (5) (5) T. (5) (7)

Atty Dkt No: 35800/208932 (5800-206)

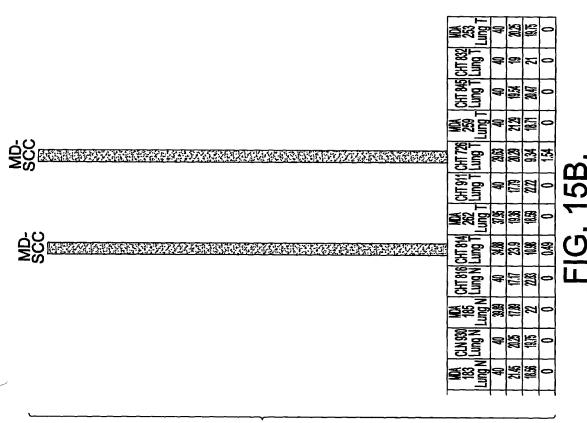
FIG. 14B.

IBM IMBM BWGPA HEAGZA HEAGZAS HEALING HEO K562 MON. ******* 742X-500-0 PERMIT

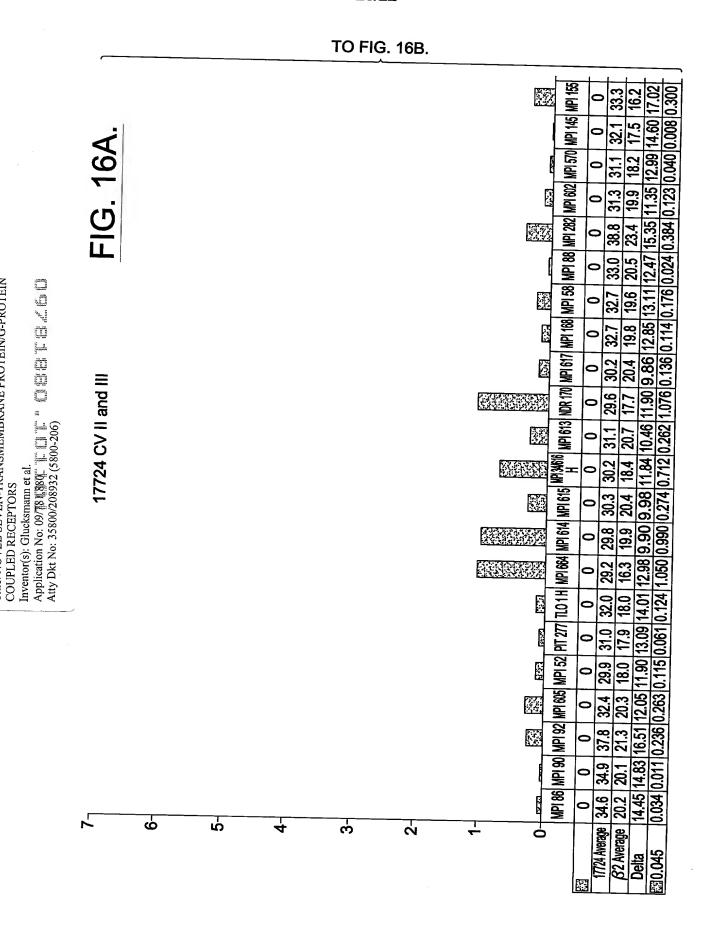
FROM FIG. 14A.

_					ТО	FIG. 1	5B.				
										MDA 25 Ovary T 39.22 18.12 21.4	.
										CLN 03 CLN 05 CLN 17 CLN 07 CLN 08 216 216 CLN 012 MDA 25 Ovary T Ovar	
										Ovary T 355 0 4455	
										Ovary T	
										OCIN 07	
										OCLN 1938 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
										20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
										CCINOS 385 19 0	
										293 293 1935 0	
ate I										0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
y Pi										08 CHT 65 N Ovary 18.23 14.43	ď.
7724 Expression in Oncology Plate I										NDR 07 NDR 12 PT 208 CHT 620 CHT 619 NDA 283 Breast T Breast T Ovary N	15A
n On										07 NDR 1 84 T Breast 28.19.27 19.27 0 0	<u>ධ</u>
ion											문
press										NDR 58 NDR 132 132 33.7 33.7 22.13 23.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5 1	
4 X										300 A NO	
1772											
										0 93.58 P.	
										20 20 20 20 20 20 20 20 20 20 20 20 20 2	
										717 56 37 40 18.49 0 0	
										O NDR 13 PIT 400 PIT 371 PIT 56 MDA 234 Breast 1724 40 40 40 33.6 5151 18.6 18.1 19.7 19.7 19.7 235 11.8 18.6 18.1 19.7 235 11.8 18.6 18.1 19.7 20.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
										PIT 400 1	
									_	NDR 13 Breast N 40 20.9 19.1 0	
0.5	0.45	0.4	0.35	0.3	0.25	0.2-	0.15-	0.1	0.05	Near 17724 B 2 Near 33 CC 33 CC	

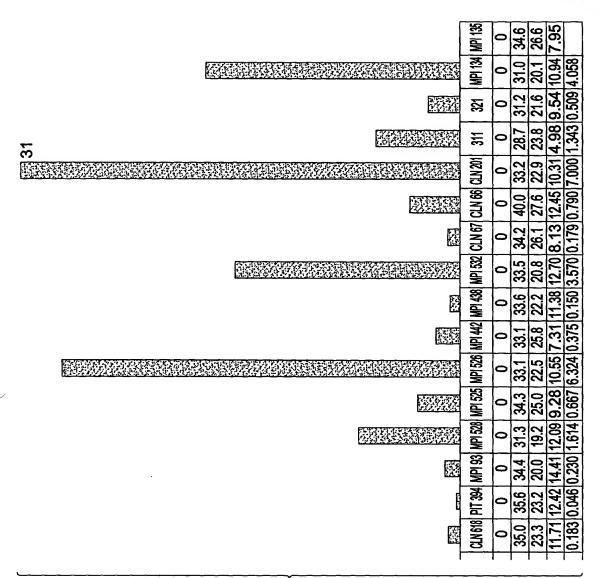
Tute: NOVEL SEVEN-TRANSMEMBRANE PROTEIN/G-PROTEIN COUPLED RECEPTORS
Inventor(s): Glucksmann et al.
Application No: 09/781,886 C. T. F. C. T. T. C. E. C. C. Atty Dkt No: 33800/208932 (5800-206)



FROM FIG. 15A.



TITIE. NOVEL SEVEN-IRANSMEMBRANE PROTEIN/G-PROTEIN



FROM FIG. 16A.

